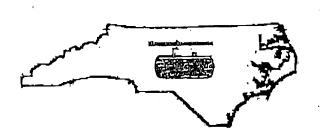
COMMENTS:

Facsimile Cover Page



NCDENR DIVISION OF WASTE MANAGEMENT UST SECTION 1637 MAIL SERVICE CENTER RALEIGH NC 27699-1637 PHONE (919) 733-8486 FAX (919) 733-9413 OR (919) 715-1117

то: Е	than Coldwell	
COMPAN	NY:	
PHONE:	250-4088	
FAX:	250-4237	

FROM: Shown Shiple PHONE: 233-1320 DATE: 16-12-09 PAGES INCLUDING COVER PAGE: 9

Re: TF# 7217, Roy Goodwin Property Ethan, I don't have GW contaminant plume maps because we only have one LSA monitor well. I am attaching the MW construction log - DTW was 15' bls. If I construction log - DTW was 15' bls. If I can help you further, please let me know,

Sharon

Phase I Limited Site Assessment Roy Goodwin Property 11 Old Clyde Road Lake Junaluska, Haywood County, North Carolina

H&H Job No. UST-058

1.0 Executive Summary

This Phase I Limited Site Assessment (LSA) report documents investigative activities at the Former Roy Goodwin Property located at 11 Old Clyde Road in Lake Junaluska, Haywood County, North Carolina. The site is approximately 0.42 acres in area and contains one building that is currently being utilized as glass window business.

According to the North Carolina Department of Environment and Natural Resources' (NCDENR) files for the site, the subject site formerly operated as service station that contained two 750-gallon gasoline underground storage tanks (UST). The tanks were last used in the late 1950's.

In 1992, as part of proposed road widening activities, the North Carolina Department of Transportation (NCDOT) conducted soil sampling and a geophysical survey at the site. The results of the geophysical survey revealed that four USTs were potentially located on-site. Soil sampling results using purge and trap Method 5030 indicated that site soils contained a petroleum hydrocarbon blend with a distillation range similar to gasoline. Soil concentrations ranged from 57 mg/kg to 200 mg/kg.

In December 1993, Delta Environmental Consultants, Inc. (Delta) completed UST closure activities at the site. The two 750-gallon gasoline USTs were removed from the ground. The other two suspected USTs could not be located. Approximately 650 gallons of liquid was removed by Holston Used Oil Recycling prior to removing the tanks. Approximately 120 tons of

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impacted soils were removed during the UST removal activities and stockpiled on-site. The stockpiled soils were transported off-site for disposal in January 1994.

Four closure samples (two per tank) were collected by Delta and sent to CTE Laboratories, Inc. for analysis. The soil samples were analyzed for gasoline and diesel range total petroleum hydrocarbons (TPH-GRO and TPH-DRO) according to EPA Methods 5030 and 3550. TPH-GRO was detected at concentrations ranging from 55.5 milligrams per kilogram (mg/kg) to 14,200 mg/kg and TPH-DRO concentrations were all non-detect.

Land Use/Risk Characterization

The subject site qualifies as a high risk site due to the use of water supply wells for drinking water purposes in the surrounding area. The site also meets the commercial description due to the current use of the property. Three water supply wells (WSW-1 through WSW-3) were found within 1,000 ft of the source area. WSW-1 is used for drinking water purposes, and WSW-2 is no longer used and has not been abandoned. The current status of WSW-3 is unknown. Municipal water is currently available to all properties within the search radius.

An unnamed tributary of Richland Creek is located approximately 490 ft southwest of the source area. Richland Creek is located approximately 540 ft west of the source area. Richland Creek is designated as a "Class C" surface water body. Lake Junaluska is located approximately 1,300 ft southwest of the source area.

LSA Sampling and Results

Based on LSA sampling in the vicinity of the two former 750-gallon gasoline USTs, thirteen target analytes were detected at concentrations that exceed the soil-to-ground water MSCCs and two target analytes were detected at concentrations exceeding the residential MSCCs. None of the detected analytes exceed commercial/industrial MSCCs. Ten target analytes were detected in the ground water sample from MW-1 above the ground water standards, but below the GCLs.

Conclusion

Based upon the LSA sampling results, H&H recommends a monitored natural attenuation approach for the subject site.

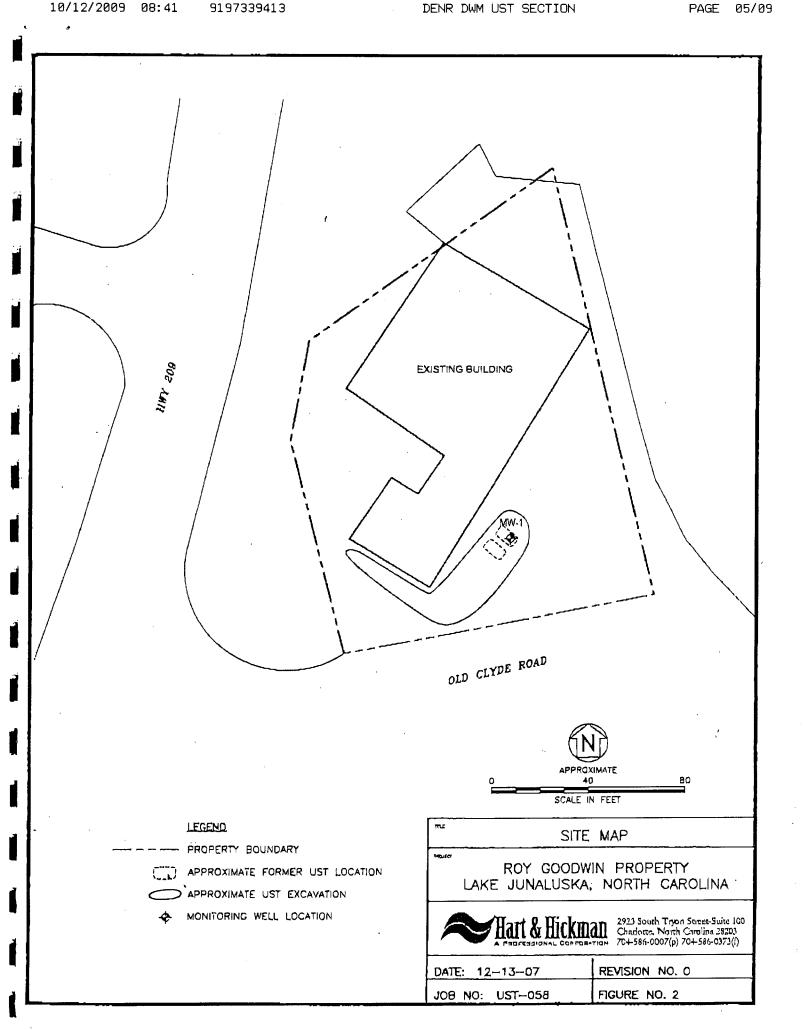


Table 3
Soil Analytical Detections
Roy Goodwin-FTF# 7217
Lake Junaluska, North Carolina
<u>H&H Job No. UST-058</u>

Area of Concern	UST Basin	١	NC Target Levels	
Sample ID	MW-I	Soil to GW MSCCs	Residential MSCCs	Commercial/ Industrial
Depth (feet) Units	8-10	((1)	(=0)	MSCC5
Onts Date Sampled	(mg/kg) October 8, 2007	(mg/kg)	(mg/kg)	(mg/kg)
	20.0000			
<u>VPH/EPH</u>				
VPH C5-C8 Aliphatics	1,600	72	939	24,528
VPH C9-C12 Aliphatics	3,300	NS	NS	NS
EPH C9-C18 Aliphatics	NA'	NS	NS	NS
Total C9-C18 Aliphatics	3,300	3,300	9,386	245,280
EPH C19-C36 Aliphatics	NA	NS	93,860	NS
EPH C11-C22 Aromatics	NA	NS	NS	NS
VPH C9-C10 Aromatics	1,300	NS	NS	NS
Total C9-C22 Aromatics	1,300	34	469	12,264
<u>VOCs (8260)</u>		,		
1,2,4-Trimcthylbenzene	620	7.5	782	20,440
1,3,5-Trimethylbenzene	190	7.3	782	20,440
Ethylbenzono	290	4.6	1,560	40,000
Isopropylhenzene	29	1.7	1,564	40,880
n-Butylbenzenc	22	4.3	626	16,350
n-Propylbenzene	130	1.7	. 626	16,350
Naphthalene	200	0.58	313	8,176
Total Xylenes	1,270	5	3,129	81,760
p-Isopropyltoluene	6.4	NS	NS	NS
sec-Butylbenzene	9.9	3.3	626	16,350
Tolucne	19	7.3	3,200	82,000

Notes:

Bold indicates a concentration exceeding one or more action levels

EPA Method number fullows parameter in purenthesis

Except for VPH/EPH, only compounds detected in an least one sample are shown

VOC = Volatile Organic Compound; NS = Not Specified

MSCC = Maximum Soil Contaminant Concentration; GW = Ground Water

VPH= Volatile Petroleum Hydrocarbons

EPH= Extraemble Petroleum Hydrocarbons

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Sheet | of | LOG OF BORING: MW-1 = 200 Ray Goodwin Property Surface Elev.: Top of Casing Elev.: JOD NO: UJT- 058 Drilling Rig/Method: DPT 6620 Location: Laks dunc IVSKA, NC Sampling Method: DPT Graphics Elevation, feel Symbol **[eel** (ppm) SPT, Blow Counts WELL DIAGRAM MATERIAL DESCRIPTION Depth, (The stratification lines represent approximate boundaries. The transition may be gradual.) Red-brown, sity clay, miraceus Gout Yellow-brown, sily clan 6 0 710K (8-10) & 0.0 7106 Tun-brown clayer & It Microsof Some DWR, PUCL Sc een Brown to orange, clayery silt 152 إما ال Borny terminated @ 20' SCAEN Remorks: @ sample depth Completion Depth: 20 Date Boring Started: 10 102 107 Date Boring Completed: 1010日107 Engineer/Goologist: MHF File Nome Drilling Controctor: Se1



Non RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3393

I, WELL CONTRACTOR:	d. TOP OF CASING IS U - U FT. Above Land Surface
Ralph Crater	"Top of casing terminated altor below land surface may require a variance in accordance with 15A NCAC 2C .0118.
Well Contractor (Individual) Name	e. YIELD (gpm): n/a METHOD OF TEST_n/a
Subsurface Enviro. Investigations Well Contractor Company Name	1. DISINFECTION: Type D/a Amount
STREET ADDRESS2155 Macksville Hwy	g. WATER ZONES (depth);
	From n/a To From To
Statesville, NC 28625 City or Town State Zlp Code	FromToToTo
704 876-0010	FromToToTo
Area code- Phone number 2. WELL INFORMATION:	6. CASING: Thickness/ Depth Diameter Weight Material
SITE WELL ID #(If applicable)	From To O Ft. Z 5CK40 PVC
STATE WELL PERMIT#(If applicable)	From To FL
DWO or OTHER PERMIT #(If applicable)	7, GROUT: Dopin Material Metroc
WELL USE (Chock Applicable Box) Monitoring () Municipal/Public ()	
Industrial/Commercial	From 8 To 5 Ft. Bandonite tremie
Irrigation Other ((list use)	From To FI. Portland Treme
DATE DRILLED 10-8-07	8. SCREEN: Depth Diameter Stot Size Material
TIME COMPLETED AM PM	From 20 To 10 FI, 2 in. DID In. PNC
	From To Ft. in. in.
3. WELL LOCATION: CITY: Lake Jugaluska COUNTY	FromToFt,inin.
(Streel Name, Nambers, Community, Subdivision, Los No., Parcel, Zip Code)	9. SAND/GRAVEL PACK: Dopin Size Material
TOPOGRAPHIC / LAND SETTING:	From To FI Silica Sand
Slope DValley DFlat DRidge DOther	FromToFt
(check appropriate box) May be in degrees.	FromToFI
LATITUDE 3 minutes, seconds or	10. DRILLING LOG
LONGITUDE in a decimal formal	From To Formation Description
Latitude/longitude source: DGPS DTopographic map	
(location of well must be shown on a USGS topo map and	
affached to this form if not using GPS)	
4. FACILITY is the name of the business where the well is located,	
FACILITY ID #(If applicable)	
NAME OF FACILITY Auto Glass (g (Goodwin)	
STREET ADDRESS // Chyde &	
City or Town State Zip Code	
CONTACT PERSON Mike Crouch	
MAILING ADDRESS 2923 S. Tryon St.	
Charlotte NC 28203	11. REMARKS:
City or Town State Zip Code	
(704) 586-0007	
Area code - Phane number	TOO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE A THE
5 WELL DETAILS:	150 HEREBY CERTIFY TRAIT THAT THE VELL WAS CONSTRUCTED STANDARDS. AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.
R, TOTAL DEPTH: 20	P-15-P7
b. Does well replace existing well? YES D NOC	SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE
c. WATER LEVEL Below Top of Casing:FT.	Ralph Crater
(Usa "+" If Above Top of Casing)	PRINTED NAME OF PERSON CONSTRUCTING THE WELL
	•